

BEKA VAPOURLINE

Industrial LED luminaire



BEKA VAPOURLINE



IP 65

IK 08



Efficiency made affordable

The BEKA VAPOURLINE offers a robust and efficient LED alternative for replacing fixtures fitted with T5/T8 fluorescent tubes.

Designed to provide a long-term solution for harsh industrial environments, the BEKA VAPOURLINE has a strong mechanical design that makes it highly resistant to shock and vibration while its IP rating makes it ideal for dusty and wet locations.

This high-performing luminaire provides an energy-efficient lighting solution. With a lifetime 5 times longer than a fluorescent tube, this modern linear LED luminaire lowers the total cost of ownership of a lighting installation and eliminates the need for maintenance.

The LED modules are clipped into the diffuser, creating a protected and enclosed optical compartment within the luminaire. This will prevent any premature damage to the LEDs during installation or during maintenance.

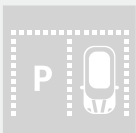
The BEKA VAPOURLINE creates safe and comfortable working conditions thanks to its low glare and high colour rendering index to optimise productivity.

Key advantages

- Designed and manufactured in South Africa
- LED alternative for fixtures equipped with fluorescent T5/T8 lamps
- Cuts energy costs by up to 50%
- Uniquely designed optical compartment to meet LED lifetime expectation
- Easy installation and maintenance free
- High colour rendering index: CRI 80
- High luminaire efficacy (up to 175 lm/W)
- Uniform luminance with low glare due to prismatic diffuser design
- Long service life: over 60,000 hours (L70B10)
- No ingress of dust and moisture into the LED and controller compartment - IP 65
- Vandal-resistant - IK 08
- Robust corrosion-resistant housing and diffuser
- Stainless steel latches
- Supplied with complete surface mounting kit
- 3 hours battery autonomy
- Surge protection 10kV/10kA - optional
- Suspension mounting - optional



INDUSTRIAL
HALLS &
WAREHOUSES



CAR PARKS



PUBLIC
BUILDINGS



OFFICE
BUILDINGS



SPORT
AREAS

Characteristics

GENERAL INFORMATION

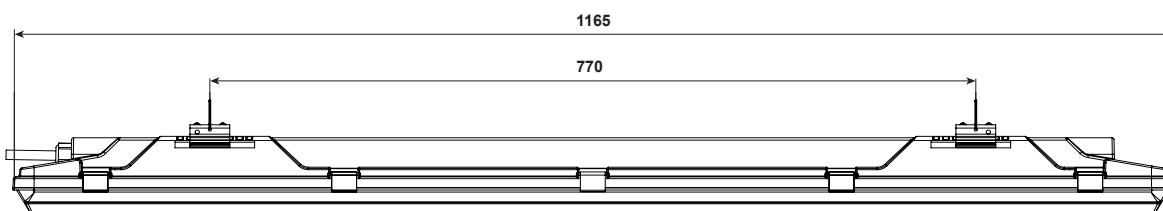
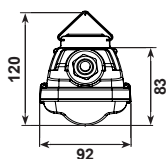
Recommended installation height	2m to 5m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598

HOUSING AND FINISH

Housing	High-impact polycarbonate
Protector	High-impact polycarbonate
Tightness level	IP 65
Colour	Telegrey 1 (RAL 7045)
Impact resistance	IK 08

DIMENSIONS AND MOUNTING

Weight (kg)	2.1
Standard mounting	With two metal clips on the back of the body for surface/wall mounting. Pendant with an additional triangle accessory provided as optional.



ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	230V \pm 10% 50Hz
Power factor	> 95% at full load
Surge protection	10kV / 10kA (optional)
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3-3:2013, SANS 61547:2009, SANS 62493:2015
Control	DALI (optional)

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white)
Colour rendering index (CRI)	≥ 80

OPERATING CONDITIONS

Operating temperature range (Ta)	Standard version: -35°C up to +40°C (*)
	Emergency version: -35°C up to +35°C (*)

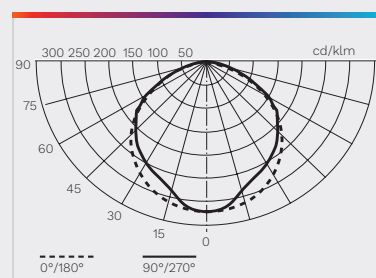
(*) Depending on the luminaire inclination and driving current. For more details, please contact us.

LIFETIME OF THE LEDS @ TQ 25°C

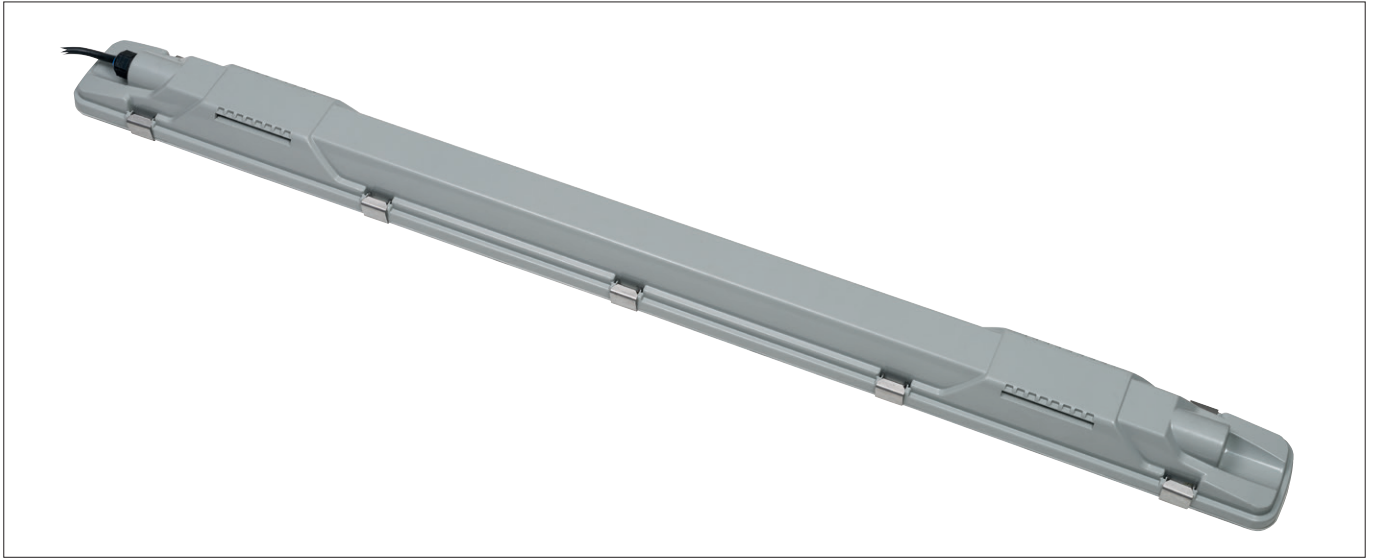
For all versions	60,000h - L70B10
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Light Distribution

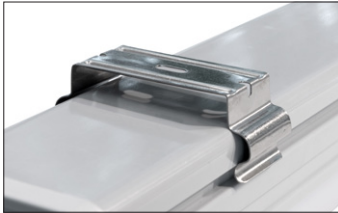
VLN LED optic



Key Features



Sleek, slim design optimised for LED technology, versatile mounting and various wiring options



Standard mounting clips



Triangle for suspended mounting (optional)



Low glare design for comfortable working conditions



Uniquely designed optical compartment to meet LED lifetime expectation

Construction Details

The body is manufactured from injection-moulded, UV stable polycarbonate material. Mounting is facilitated through removable external stainless steel mounting brackets, which can accommodate either surface or suspension mounting. A silicon sponge gasket is fitted into a special groove in the housing. This, in conjunction with the tongue provided on the diffuser, ensures the optimal sealing of the total enclosure, thereby maintaining the IP 65 ingress protection rating.

The diffuser is manufactured from injection-moulded, UV stable polycarbonate material. The highly effective internal prisms of the diffuser ensure an optimal distribution with a transmission value of $\geq 91\%$. The diffuser is secured in place through multiple sprung stainless steel clips which ensure the integrity of the IP rating.

The electronic gear is mounted on the reverse side of the powder coated steel LED mounting plate and is accessible for maintenance. The LED modules are clipped into the diffuser, creating a protected and enclosed optical compartment within the luminaire. This will prevent any premature damage to the LEDs during installation or during maintenance.

All control gear components are removable. Mains connections are by means of a suitable screw terminal block with a wire clamping contact.

Performance



Luminaire	Current (mA)	Nominal flux (lm) ^(*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	T8 equivalent (W)
		Typical	Typical	Typical	Typical	Typical	Typical
BEKA VLN LED	200	5000	26	193	4550	175	2*36
	325	7760	46	169	7062	154	2*58

Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$

^(*) The nominal flux is an indicative LED flux @ Tj 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

Ordering Data

Description	Line current (A)	LED current (mA)	Nominal flux (lm)	Mass (kg)
BEKA VLN LED 26W	0.12	200	5 000	1.6
BEKA VLN LED 46W	0.2	325	7 760	1.6
Emergency Version - 1 hour				
BEKA VLN LED 26W	0.12	200	5 000 / 603 (EM)	2.1
BEKA VLN LED 46W	0.2	325	7 760 / 580 (EM)	2.1

Standard colour: Telegrey 1 (RAL 7045)
Standard CCT: Neutral white (4000K)

Options & Accessories

Electrical

Switching/dimming control	DALI
Surge protection	10kV/10kA
Wiring	Through-wiring

Mechanical

Mounting	Triangle for suspended mounting
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BEKA Schröder

Experts in lightability™

SABS
ISO 9001



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